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AMENDMENTS TO THE SPECIFICATION:

Please amend the Abstract of the Disclosure appearing on page 34, at lines 4

through 24, of the specification as follows:

The purpose of present invention is to provide the method and device for stabilizing the

operation point and optical output of external optical modulator, which can control the wave

pattern deformation of electrical signal array and set up stably the operation point of modulation

curve of optical modulator and the optical output from optical modulator, even in case there is an

optical output variation of the light source itself or a transmission factor variation in optical

modulator.

The present invention is the method and device for stabilizing the operation point and

optical-output of external optical-modulator with light source 12, external optical modulator 2

modulating the light from the light source, optical detector 14 detecting the output light from the

said external optical modulator and the means of regulating direct current bias that regulates the

direct current bias determining the operation point of modulation curve of the said external

optical modulator, according to the output of the said optical detector, wherein;

low frequency signal 69, which is frequency below the lower limit of the signal frequency band

of input signal inputted to the said external optical modulator, is superimposed onto the said

direct current bias, and the low frequency component included in the output of the said optical

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detector is extracted, and the output of the said low frequency component is normalized on the basis of the said low frequency signal, and the output light of light source is controlled in accordance with the said normalized low frequency component.

A method and device for stabilizing operation point and optical output of an external optical modulator. A low-frequency signal below a lower limit of signal frequency band of an input signal inputted to optical modulator is superimposed onto direct current bias. A low-frequency component included in detector output is extracted. On the basis of the low-frequency signal, output of the low-frequency component is normalized, and output-light of light source is controlled in accordance with normalized low-frequency component. Means of controlling optical output of light source, in control of output-light of light source, detects the output-light, compares the value of detected output-light to a standard value of primary optical output, and adjusts the output-light. The standard value is modified according to a ratio of primary value of normalized low-frequency component to a subsequent value, and means controlling optical output of light source is operated on the basis of modified standard value.